Title: "JPEG PROCESSING ENGINE FOR LOW PROFILE SYSTEMS" Inventors: Kaixuan Mao et al. ARC-P126 1/8

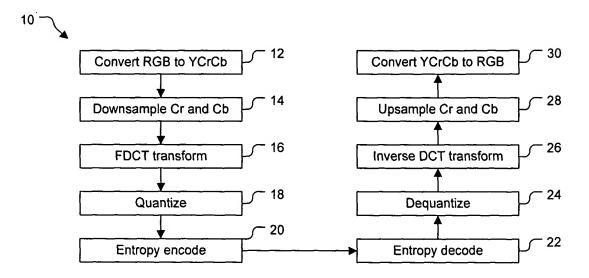


Fig. 1 (Prior art)

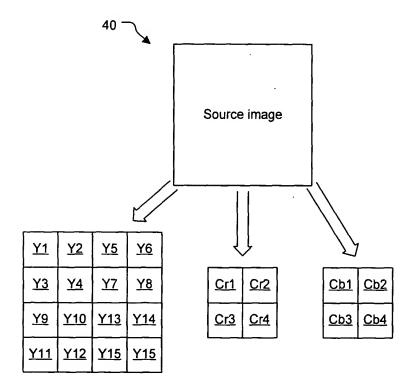
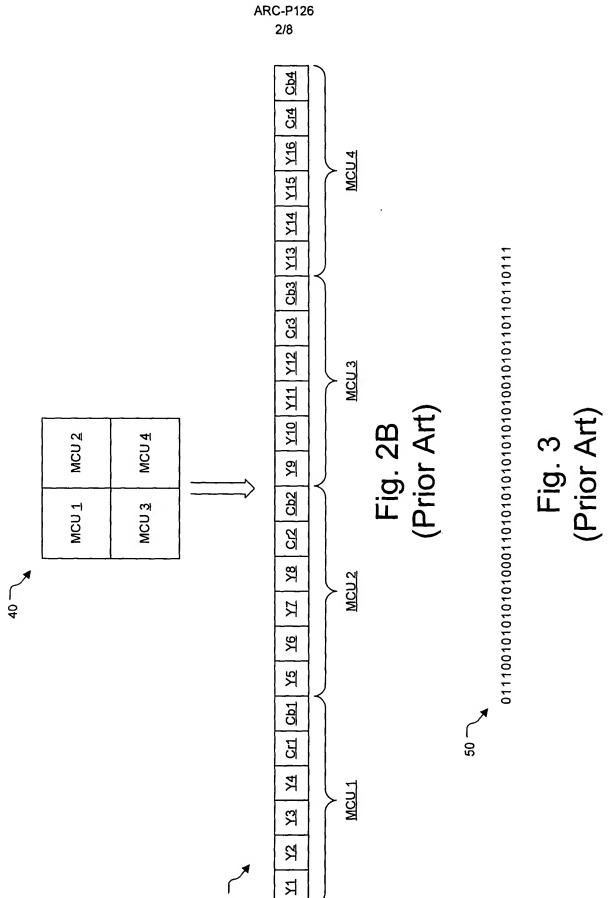


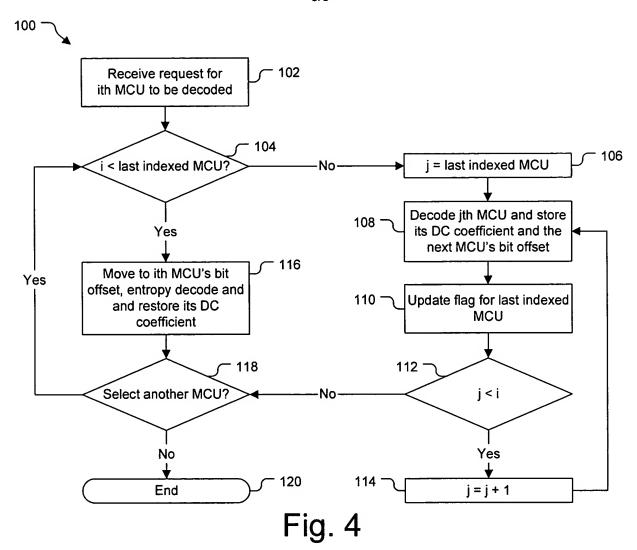
Fig. 2A (Prior art)

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Title: "JPEG PROCESSING ENGINE FOR LOW PROFILE SYSTEMS" Inventors: Kaixuan Mao et al. ARC-P126

3/8



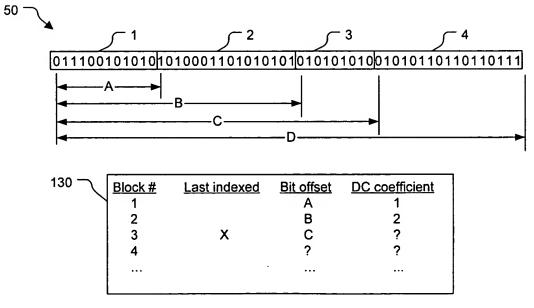


Fig. 5

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				x0		x1		
	MCU	MCU	мси	MCU	MCU	MCU	MCU	мси
	мси	MCU	MCU	MCU	MCU	MCU	MCU	мси
y0	MCU	мси						
	мси	MCU	MCU	MCU	мси	MCU	MCU	мси
у1	MCU	мси						
	MCU	мси						

Fig. 6

				х0	x0'	x1	x1'	
	MCU	MCU	MCU	MCU	мси	MCU	MCU	мси
	MCU	MCU	MCU	MCU	MCU	MCU	мси	MCU
y0	MCU	мси						
	MCU	мси						
y1	MCU	мси						
	MCU	MCU	MCU	MCU	мси	MCU	MCU	мси

Fig. 7

Inventors: Kaixuan Mao et al. ARC-P126 5/8

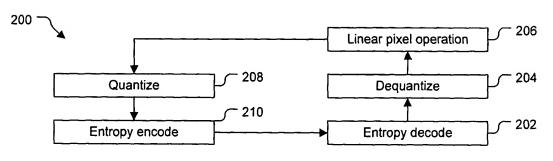


Fig. 8

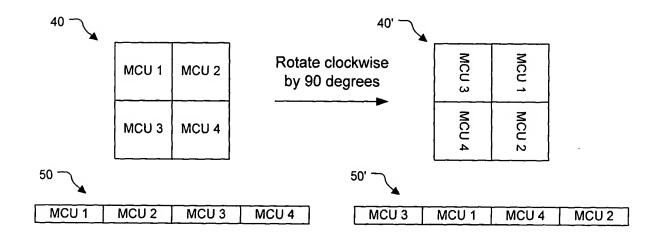


Fig. 9

230		
	Block No.	Block editing list
	0 1 2	Enhance + rotate + crop Rotate Enhance
	L	

Fig. 10

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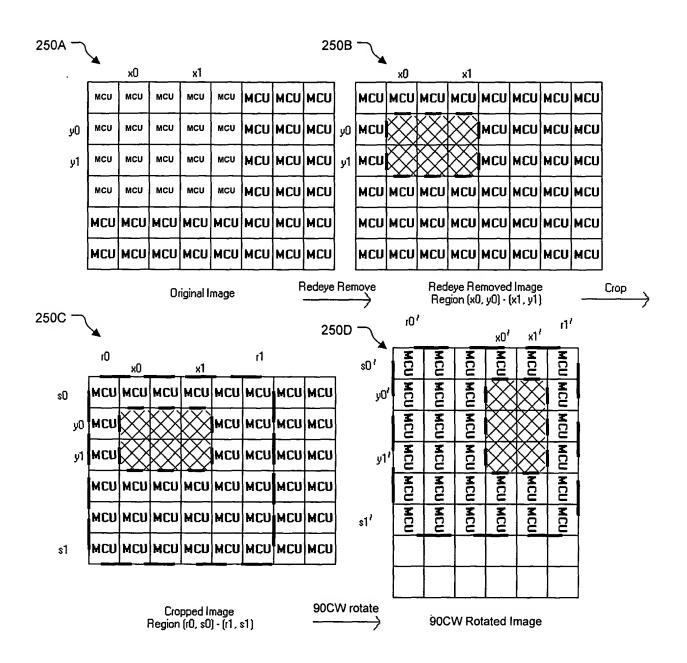


Fig. 11

Inventors: Kaixuan Mao et al. ARC-P126

7/8

270A

Block No.	Block Coordinates	Block Editing list
0	(0, 0)	NULL (at start)
1	(1, 0)	NULL
2	(2, 0)	NULL .
3	(3, 0)	NULL

Fig. 12A

270B

Block No.	Block Coordinates	Block Editing list
0	(0, 0)	NULL
1	(1, 0)	NULL
2	(2, 0)	NULL
N	(x0, y0)	Redeye Removal
N+1	(x0+1, y0)	Redeye Removal
M	(x1, y1)	Redeye Removal
M+1	(x1+1, y1)	NULL

Fig. 12B

Inventors: Kaixuan Mao et al. ARC-P126 8/8

270C \

Block No.	Block Coordinates	Block Editing list
0	(0, 0)	NULL
1	(1, 0)	NULL
2	(2, 0)	NULL
S	(r1+1, s0)	Not Available
S+1	(r1+1, s0+1)	Not Available
N	(x0, y0)	Redeye Removal
N+1	(x0+1, y0)	Redeye Removal
M	(x1, y1)	Redeye Removal
M+1	(x1+1, y1)	NULL
	<u> </u>	

Fig. 12C

270D

Block No.	Block Coordinates	Block Editing list
0	(r1', s0')	90CCW
1	(r1', s0'+1)	90CCW
2	(r1', s0'+1)	90CCW
S	(r1', s1'+1)	Not Available
S+1	(r1', s1'+2)	Not Available
		···
N	(x1', y0')	Redeye Removal + 90CCW
N+1	(x1', y0'+1)	Redeye Removal + 90CCW
М	(x0', y1')	Redeye Removal + 90CCW
M+1	(x0', y1'+1)	90CCW
	<u> </u>	···

Fig. 12D